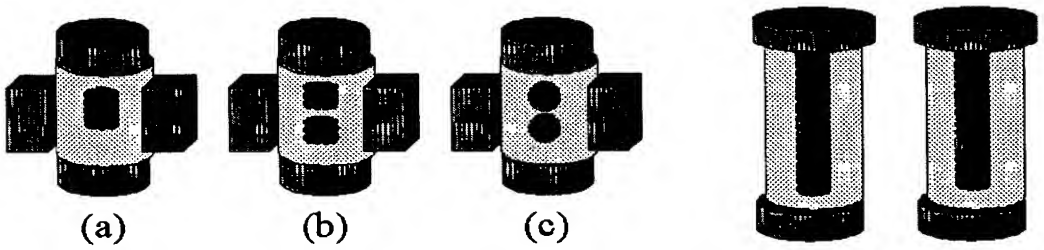
SET or RTD nanoswitches:

Lateral Transport

Vertical Transport



QCA nodes switches:

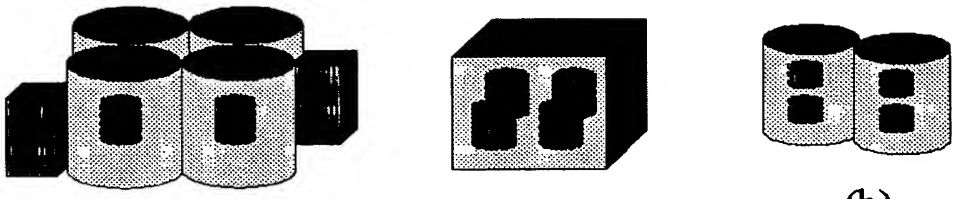


FIGURE 1

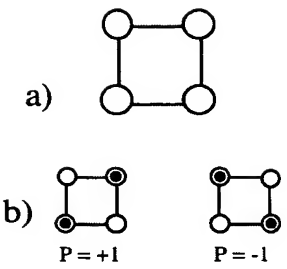


FIGURE 2

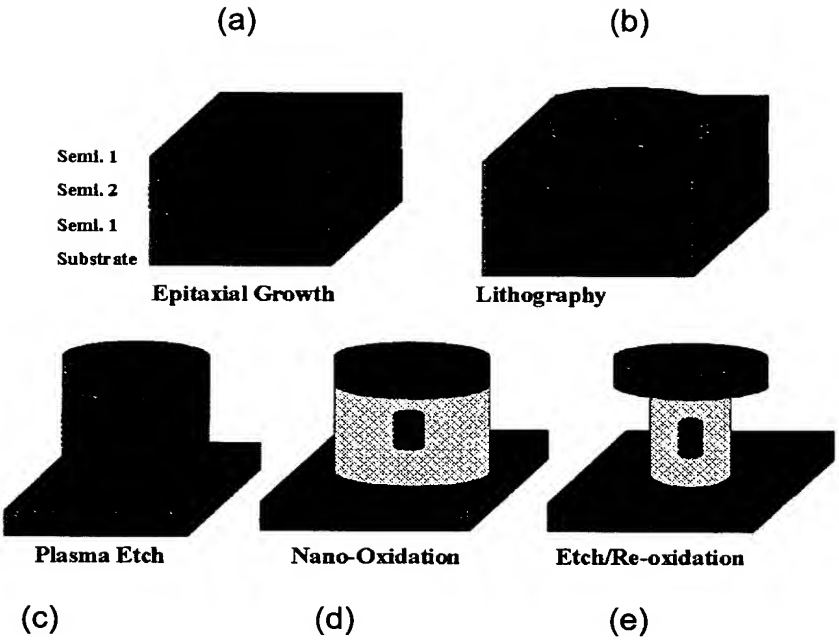

(a)
(b)
Semi. 1
Semi. 2
Semi. 1
Substrate
Epitaxial Growth
Lithography
Plasma Etch
Nano-Oxidation
Etch/Re-oxidation
(c)
(d)
(e)

FIGURE 3

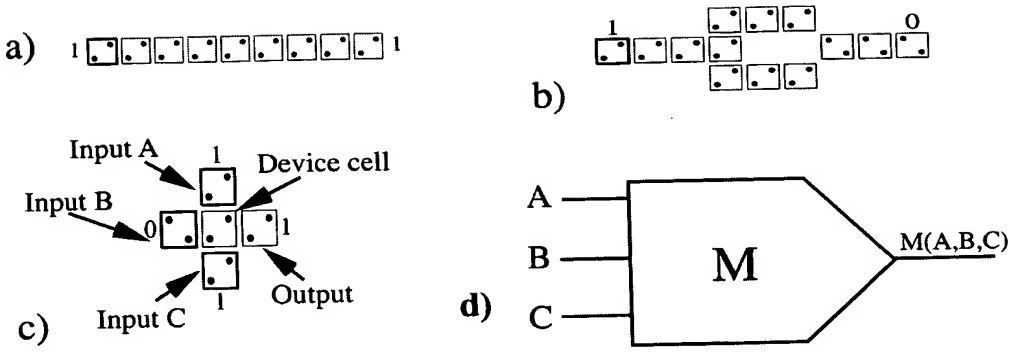

a)
1
1
b)
1
0
c)
Input A
1
Device cell
Input B
0
1
Input C
1
Output
d)
A
B
C
M
M(A,B,C)

FIGURE 4

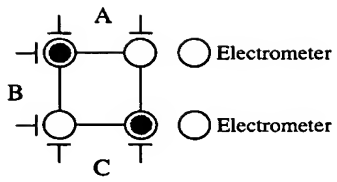


FIGURE 5